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Exhibit R-2, PB 2010 Office of Secretary Of Defense RDT&E Budget Item Justification								DATE: May 2009		
APPROPRIATION/BUDGET ACTIVITY 0400 - Research, Development, Test & Evaluation, Defense-Wide/BA 2 - Applied Research					R-1 ITEM NOMENCLATURE PE 0602227D8Z Medical Free Electron Laser					
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	2.315	0.000	0.000						Continuing	Continuing
P483: Medical Free Electron Laser	2.315	0.000	0.000						Continuing	Continuing

A. Mission Description and Budget Item Justification

Funding for the Medical Free Electron Laser (MFEL) Program was terminated effective in FY 2008. Purpose of the program has been to develop advanced, laser-and optical-based applications for military medicine. Free electron lasers (FELs) provide unique pulse features and tunable wavelength characteristics that are unavailable in other laser devices. Thus, FELs facilitate the experimental options for the development of new laser-based medical technologies. This program has been focused on developing advanced procedures and equipment for rapid diagnosis and treatment of battlefield-related medical problems.

B. Program Change Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>
Previous President's Budget	2.385			
Current BES/President's Budget	2.315			
Total Adjustments	-0.070			
Congressional Program Reductions				
Congressional Rescissions				
Total Congressional Increases				
Total Reprogrammings				
SBIR/STTR Transfer	-0.065			
Undistributed Reductions	-0.005			

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R-1 Line Item #8

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Exhibit R-2a, PB 2010 Office of Secretary Of Defense RDT&E Project Justification									DATE: May 2009	
APPROPRIATION/BUDGET ACTIVITY 0400 - Research, Development, Test & Evaluation, Defense-Wide/BA 2 - Applied Research				R-1 ITEM NOMENCLATURE PE 0602227D8Z Medical Free Electron Laser					PROJECT NUMBER P483	
COST (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
P483: Medical Free Electron Laser	2.315	0.000	0.000						Continuing	Continuing
<u>A. Mission Description and Budget Item Justification</u> Funding for the Medical Free Electron Laser program was terminated effective in FY 2008. The purpose has been to develop advanced, laser-and optical-based applications for military medicine. Free electron lasers (FELs) provide unique pulse features and tunable wavelength characteristics that are unavailable in other laser devices. Thus, FELs facilitate the experimental options for the development of new laser-based medical technologies. This program has been focused on developing advanced procedures and equipment for rapid diagnosis and treatment of battlefield-related medical problems.										
<u>B. Accomplishments/Planned Program (\$ in Millions)</u>							FY 2008	FY 2009	FY 2010	FY 2011
Medical Free Electron Laser <i>FY 2008 Accomplishments:</i> During FY 2008, funding was utilized to improve contrast and depth of Optical Coherence Tomography (OCT) imaging, investigate its use in burn and respiratory tract injury, and develop new ultra-small fiber optic endoscopy systems for general surgical use as well as other areas of potential applicability. Funding for the Medical Free Electron Laser (MFEL) Program was terminated effective in FY 2008.							2.315	0.000	0.000	
<u>C. Other Program Funding Summary (\$ in Millions)</u> N/A										
<u>D. Acquisition Strategy</u> N/A										
<u>E. Performance Metrics</u> N/A										

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